

NPOESS Instruments: A-DCS/SARSAT

Government Furnished Equipment from CNES (France) and DND (Canada)

npoess.noaa.gov



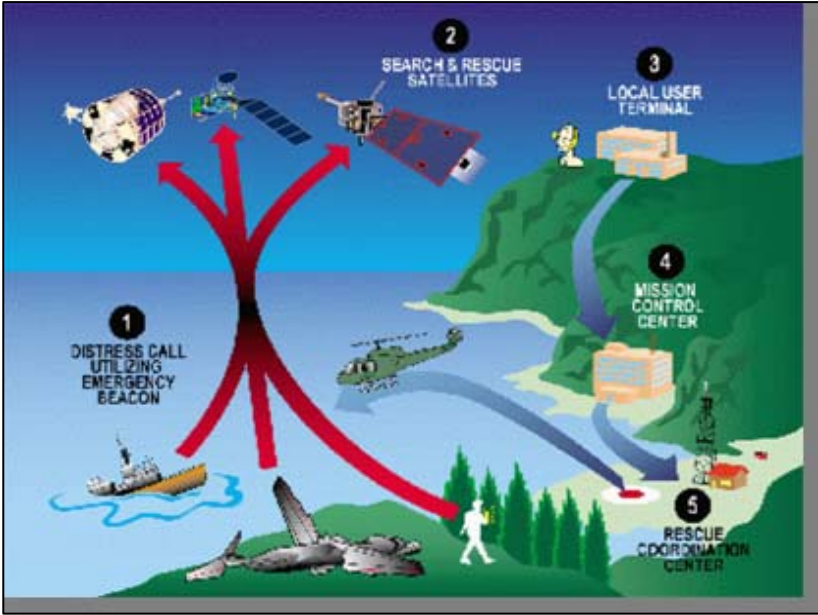
Advanced Data Collection System/Search and Rescue Satellite-Aided Tracking

Advanced Data Collection System

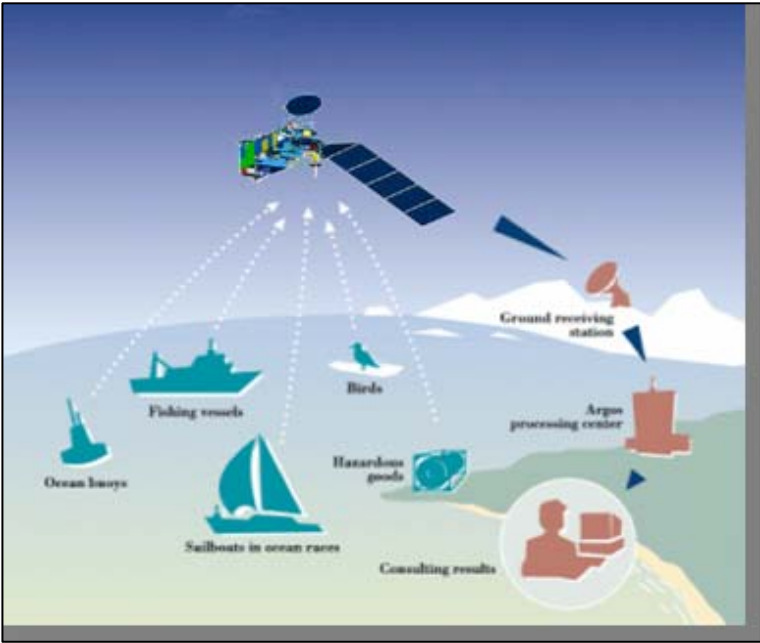
The National Polar-orbiting Operational Environmental Satellite System (NPOESS) will continue the NOAA tradition of providing a platform for the French Data Collection System (DCS). The advanced DCS (A-DCS) carried on-board NPOESS satellites will provide global coverage and platform location of in-situ data collection platforms. These platforms are equipped with sensors and transmitters which permit applications such as monitoring drifting ocean buoys, monitoring weather conditions at remote sites, and studying wildlife migration paths.

Mass, kg	25
Power, W	
Transmitter Off	29
Transmitter On	52
Data Rate, kbps	~15

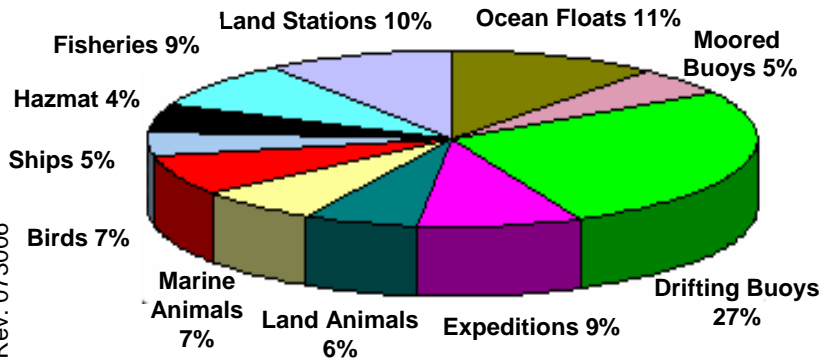
- A-DCS supports global environmental data collection applications
- A-DCS heritage sensor on POES



The A-DCS System



A-DCS Applications



The SARSAT System

Search and Rescue Satellite Aided Tracking

The National Polar-orbiting Operational Environmental Satellite System (NPOESS) will continue the NOAA tradition of providing a platform for the Canadian Search and Rescue Repeater (SARR) and the French Search and Rescue Processor (SARP) for use in Search and Rescue Satellite Aided Tracking (SARSAT).

These instruments form a part of the international Cospas-Sarsat System. They receive distress signals from special beacons, carried primarily on boats and airplanes, and process/relay the information to personnel at special receiving stations. They, in turn, contact the proper authorities, who, using Cospas-Sarsat-provided location data, can then effect rescue operations without first performing lengthy and costly searches.

- SARSAT collects distress beacon signals
- SARSAT heritage sensors fly on POES
- Flies in both orbit planes

Mass, kg	38
Power, W	80

